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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/785,447	02/24/2004	Axel Vom Endt	P04,0026	8503

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SCHIFF HARDIN, LLP
PATENT DEPARTMENT
6600 SEARS TOWER
CHICAGO, IL 60606-6473

EXAMINER

SHRIVASTAV, BRIJ B

ART UNIT PAPER NUMBER

2859

DATE MAILED: 03/28/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/785,447

Applicant(s)

ENDT, AXEL VOM

Examiner

Brij B. Shrivastav

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 24 February 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-7 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-7 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 7/15/04 and 9/23/0
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

1. Claims 1-7 are rejected under 35 U.S.C. 102(b) as being anticipated by Stocker (GB 2 395 278 A).

As regards to claim 1, Stocker teaches a gradient coil for a magnetic resonance tomography apparatus, including a carrier plate, and a spiral coil disposed on the carrier plate at a first level relative to the carrier plate (figures 1 and 6, numerals 110 and 120). The coil having an inner conductor feed section and an outer conductor feed section, wherein the inner conductor feed section being disposed at a second level, separated from the first level, relative to the carrier plate (figure 2, 3 and 6, numerals 115/145 and the outer end can be seen as dotted line outer end). The spiral coil with the inner and outer feed conductor sections forming a continuous, unitary electrical conductor (as can be seen by the dotted line of figure 6), whereas the inner conductor feed section being disposed outside of the carrier plate (figure 6, the inner end 115/145 joining to the second coil 140).

As regards to claims 2 and 3, Stoker further teaches first level of the coil as a plane and in a cylindrical form (figure 6, numeral 110 and 120 page 9)

2. As regards to claim 4, Stocker teaches a method for producing a gradient coil for a magnetic resonance tomography apparatus, including the steps of producing a gradient coil for a magnetic resonance providing a winding plate having a continuous groove therein in the form of a spiral disposed in a first plane (figures 2 and 3); inserting a portion of a continuous electrical conductor into said groove for causing said continuous electrical conductor to follow said groove along said conductor path to generate a conductor arrangement formed as a spiral coil in said first plane; adhering said spiral coil to a carrier plate, and lifting the carrier plate from the winding plate, and bending a portion of the continuous electrical conductor remaining in a center of the spiral coil into a second plane, thereby forming a radial inner conductor feed section (figures 2 and 3; page 5, 6 and 8).

3. As regards to claim 6, Stocker teaches a method for producing a gradient coil for a magnetic resonance tomography apparatus comprising the steps of: providing a winding plate having a predetermined groove in a first plane, and a predetermined spiral-shaped groove proceeding outwardly from a center and being disposed in a second plane, said first plane being disposed below said second plane (figure 6), inserting a continuous electrical conductor into said predetermined groove and into said spiral-shaped groove and thereby forming, in said predetermined groove, a radial inner conductor feed section in said first plane and forming, in said spiral-shaped groove, a spiral coil in said second plane, said spiral coil and said inner conductor feed section forming a conductor arrangement', adhering said conductor arrangement to a carrier

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plate adhering said conductor arrangement to a carrier plate disposed on said winding plate; and lifting said carrier plate together with said conductor arrangement off of said carrier plate (figure 6; pages 8 and 9).

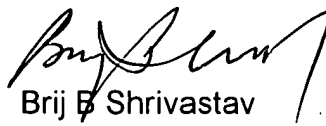
As regards to claims 5 and 7, Stocker further teaches rolling the spiral coil into a hollow cylinder having a cylindrical axis with a parallel feed axis to the axis (page 9).

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brij B. Shrivastav whose telephone number is 571-272-2250. The examiner can normally be reached on 7 AM to 4 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Diego F. F. Gutierrez can be reached on 571-272-2245. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

March 22, 2005


Brij B. Shrivastav
Examiner
Art Unit 2859
